

Community DUSEL Activities



www.deepscience.org

- November 07 Town Meetings
 - 220 participants
 - White Papers and Roadmaps
 - http://cosmology.berkeley.edu/DUSEL/Town_meeting_DC07/working_groups.html
 - **Working Groups**
 - Geo/Solar Neutrinos - Vogelaar & Tolich
 - Neutrino Double Beta Decay - Elliott & Gratta
 - Long Baseline Neutrinos & PDK - Sobel, Diwan, & Rameika
 - Dark Matter - Akerib & Gaitskell
 - Nuclear Astrophysics - Leitner

DUSEL Experiment Development Committee

- Follows on from S-1
 - **Hank Sobel (UCI) Phy**
 - **Steve Elliott (LANL) Nuclear Physics**
 - **T.C. Onstott (Princeton) Geo/Bio**
 - **Derek Elsworth (Penn State) Geo/Eng**
 - **Larry Murdoch (Clemson) Geo/Eng**
- To help underground community develop the Initial Suite of Experiments (S-4)

Significant Milestone for Initial Suite of Experiments

- November 2007 Town Meeting
- April 2008 Lead Workshops
- May 2008 Interagency Discussions – DOE and NSF
- Late Spring S-4 Solicitation Announcement
- July 2008 Internal Review of DUSEL
- Fall 2008 S-4 Funds for Experiment PDRs
- December 2008 NSF Review of DUSEL
- Summer 2009 Review of ISE by NSF Panel
- Summer/Fall 2009 Integration ISE and Facility
- Fall 2009 Completion of DUSEL PDR & Review
- Winter 2009-10 Presentation to and Review by NSF
- March 2010 Presentation to NSB
- FY2012 MREFC Start, if Approved and Appropriated



Solicitation 4

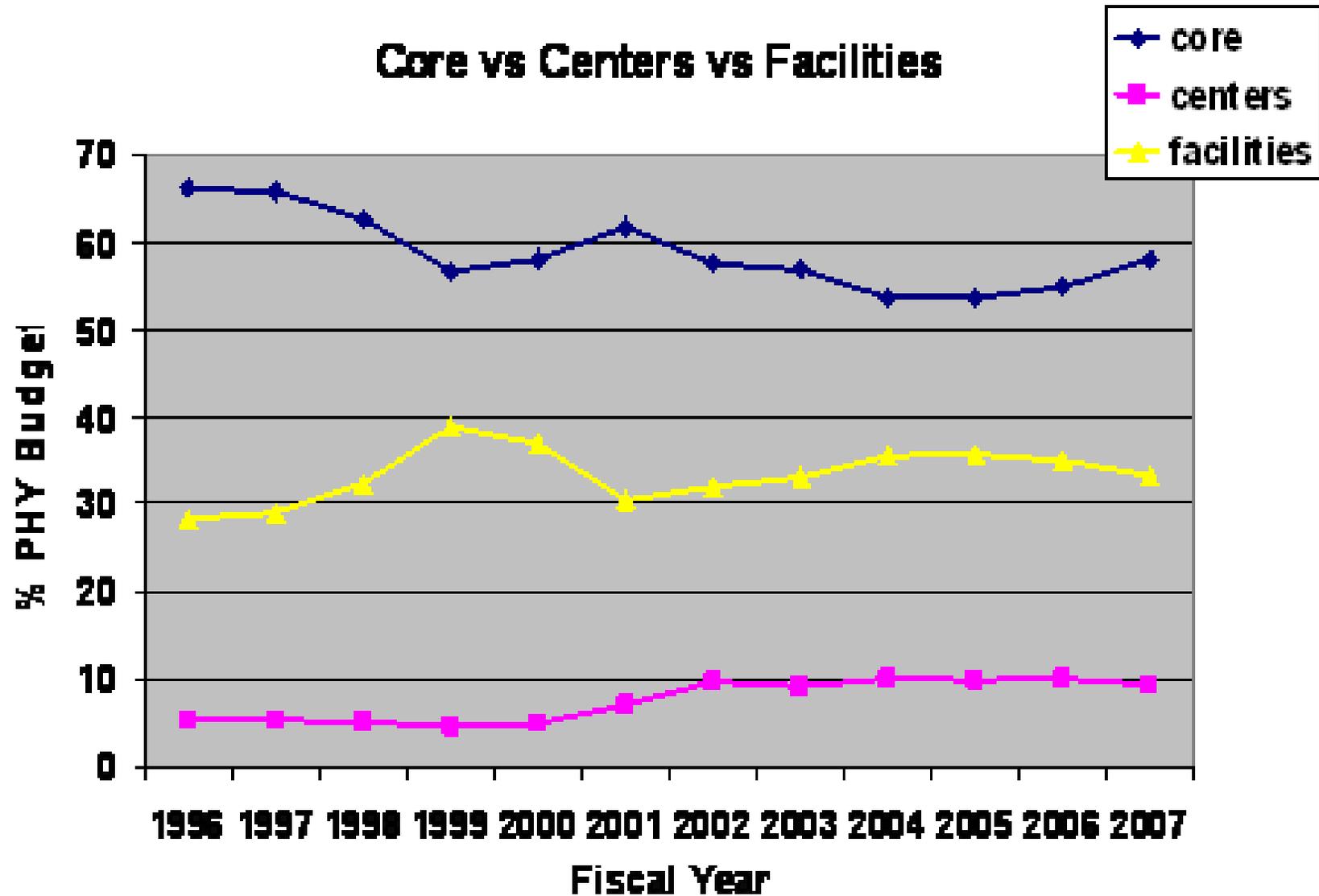
- **Solicitation 4 (S4, in clearance):** call for proposals to develop project plans for potential candidates for the ISE
- **Design funds to address:** what do you need to execute the experiment you propose?
 - Will include opportunity for limited, targeted R&D
- Open to all disciplines
- Up to \$15M total from Physics/MPS, over 3 years
 - Primarily for physics experiments
 - Additional \$0.5-1.0M from engineering
 - Approach to BIO, GEO being determined; will depend on proposals received
 - **Independent of '08 DUSEL R&D**
 - Expect publication in spring '08.



Solicitation 5

- S4 provides design & development funds for experiments that might be included in ISE
- Solicitation 5 (S5): will call for proposals from which final selection of ISE will be made
- Must allow sufficient time to review, develop final MREFC package
 - Facility + experiments, interfaces
- Current plan has publication in winter '09
- Funding recommendations for both S4 & S5 will be obtained via peer review through NSF panels

Budget sectors over time





NSF Approach to Facilities

- NSF is reactive to the research communities; is not mission oriented
- Initiative for new projects originate within the community
- Community also drives and shapes project's development
- Facility priorities established annually by NSF and National Science Board (NSB)
- NSB provides direction on the fraction of annual NSF budget that will go toward facility support